

What is claimed is:

*Sub A1*

1 1. A system of inclined geosynchronous  
2 satellite orbits above a landmass comprising:  
3 a service area on a surface of the earth  
4 having a predetermined minimum elevation angle from  
5 the horizon;  
6 a satellite having an orbit with respect to  
7 the earth having sky track when viewed from within  
8 said service area; and  
9 an operating arc defined by a subset of  
10 points on said sky track over said service area, said  
11 satellite operating on said operating arc.

1 2. A system as recited in claim 1 wherein  
2 said orbit has a predetermined inclination with  
3 respect to an equatorial plane of the earth.

1 3. A system as recited in claim 1 wherein  
2 said orbit has a predetermined eccentricity.

*Sub B1*

1 4. A system as recited in claim 3 wherein  
2 said orbit has an eccentricity factor between about  
3 0.1 and 0.5.

*3*

1 5. A system as recited in claim 1 wherein  
2 said minimum elevation angle is greater than thirty  
3 degrees.

1 <sup>4</sup><sub>6</sub>. A system as recited in claim 1 wherein  
2 said minimum elevation angle is greater than sixty  
3 degrees.

1 <sup>5</sup><sub>7</sub>. A system as recited in claim 1 wherein  
2 in said orbital track having an apogee and a perigee,  
3 said apogee is over said service area.

Added

ADD  
B2